



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 07:15 PM UTC

PDB ID : 7K34 / pdb_00007k34
Title : Crystal structure of L-threonine transaldolase from *Pseudomonas fluorescens* in internal aldimine state
Authors : Kumar, P.; Bingman, C.A.; Buller, A.R.
Deposited on : 2020-09-10
Resolution : 1.66 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

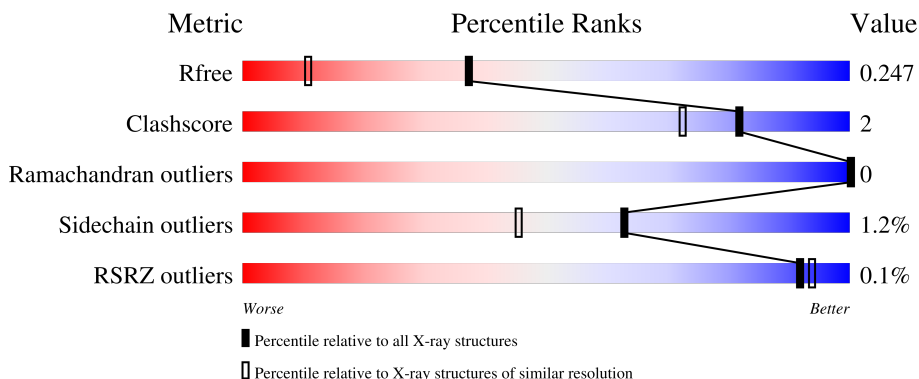
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

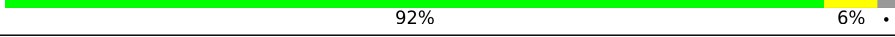
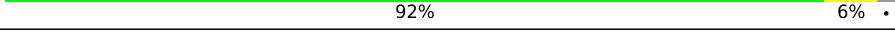
The reported resolution of this entry is 1.66 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	2563 (1.66-1.66)
Clashscore	190562	2662 (1.66-1.66)
Ramachandran outliers	187476	2621 (1.66-1.66)
Sidechain outliers	187428	2621 (1.66-1.66)
RSRZ outliers	180081	2564 (1.66-1.66)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	452	 90% 7% •
1	B	452	 90% 8% •
1	C	452	 92% 6% •
1	D	452	 92% 6% •

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 14557 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Threonine aldolase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	440	Total	C	N	O	P	S	0	6	0
			3406	2168	588	632	1	17			
1	B	441	Total	C	N	O	P	S	0	3	0
			3362	2139	580	624	1	18			
1	C	442	Total	C	N	O	P	S	0	10	0
			3441	2189	594	639	1	18			
1	D	441	Total	C	N	O	P	S	0	4	0
			3384	2155	584	628	1	16			

There are 48 discrepancies between the modelled and reference sequences:

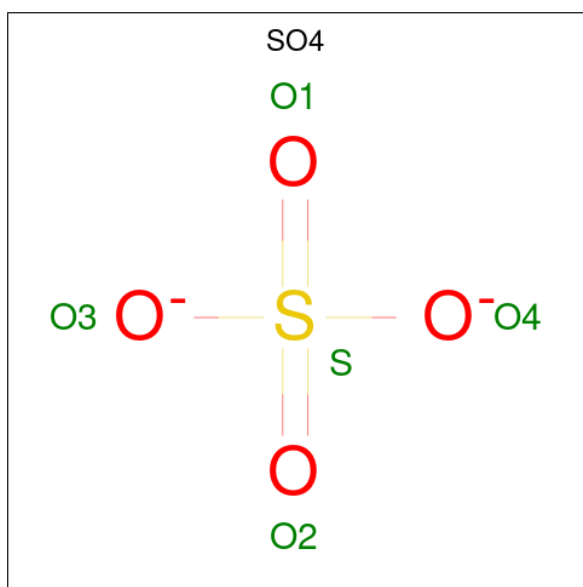
Chain	Residue	Modelled	Actual	Comment	Reference
A	-11	MET	-	initiating methionine	UNP A0A1X9LWZ7
A	-10	GLY	-	expression tag	UNP A0A1X9LWZ7
A	-9	SER	-	expression tag	UNP A0A1X9LWZ7
A	-8	SER	-	expression tag	UNP A0A1X9LWZ7
A	-7	HIS	-	expression tag	UNP A0A1X9LWZ7
A	-6	HIS	-	expression tag	UNP A0A1X9LWZ7
A	-5	HIS	-	expression tag	UNP A0A1X9LWZ7
A	-4	HIS	-	expression tag	UNP A0A1X9LWZ7
A	-3	HIS	-	expression tag	UNP A0A1X9LWZ7
A	-2	HIS	-	expression tag	UNP A0A1X9LWZ7
A	-1	SER	-	expression tag	UNP A0A1X9LWZ7
A	0	SER	-	expression tag	UNP A0A1X9LWZ7
B	-11	MET	-	initiating methionine	UNP A0A1X9LWZ7
B	-10	GLY	-	expression tag	UNP A0A1X9LWZ7
B	-9	SER	-	expression tag	UNP A0A1X9LWZ7
B	-8	SER	-	expression tag	UNP A0A1X9LWZ7
B	-7	HIS	-	expression tag	UNP A0A1X9LWZ7
B	-6	HIS	-	expression tag	UNP A0A1X9LWZ7
B	-5	HIS	-	expression tag	UNP A0A1X9LWZ7
B	-4	HIS	-	expression tag	UNP A0A1X9LWZ7
B	-3	HIS	-	expression tag	UNP A0A1X9LWZ7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-2	HIS	-	expression tag	UNP A0A1X9LWZ7
B	-1	SER	-	expression tag	UNP A0A1X9LWZ7
B	0	SER	-	expression tag	UNP A0A1X9LWZ7
C	-11	MET	-	initiating methionine	UNP A0A1X9LWZ7
C	-10	GLY	-	expression tag	UNP A0A1X9LWZ7
C	-9	SER	-	expression tag	UNP A0A1X9LWZ7
C	-8	SER	-	expression tag	UNP A0A1X9LWZ7
C	-7	HIS	-	expression tag	UNP A0A1X9LWZ7
C	-6	HIS	-	expression tag	UNP A0A1X9LWZ7
C	-5	HIS	-	expression tag	UNP A0A1X9LWZ7
C	-4	HIS	-	expression tag	UNP A0A1X9LWZ7
C	-3	HIS	-	expression tag	UNP A0A1X9LWZ7
C	-2	HIS	-	expression tag	UNP A0A1X9LWZ7
C	-1	SER	-	expression tag	UNP A0A1X9LWZ7
C	0	SER	-	expression tag	UNP A0A1X9LWZ7
D	-11	MET	-	initiating methionine	UNP A0A1X9LWZ7
D	-10	GLY	-	expression tag	UNP A0A1X9LWZ7
D	-9	SER	-	expression tag	UNP A0A1X9LWZ7
D	-8	SER	-	expression tag	UNP A0A1X9LWZ7
D	-7	HIS	-	expression tag	UNP A0A1X9LWZ7
D	-6	HIS	-	expression tag	UNP A0A1X9LWZ7
D	-5	HIS	-	expression tag	UNP A0A1X9LWZ7
D	-4	HIS	-	expression tag	UNP A0A1X9LWZ7
D	-3	HIS	-	expression tag	UNP A0A1X9LWZ7
D	-2	HIS	-	expression tag	UNP A0A1X9LWZ7
D	-1	SER	-	expression tag	UNP A0A1X9LWZ7
D	0	SER	-	expression tag	UNP A0A1X9LWZ7

- Molecule 2 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	O	S	0	0
			5	4	1		
2	A	1	Total	O	S	0	0
			5	4	1		
2	B	1	Total	O	S	0	0
			5	4	1		
2	B	1	Total	O	S	0	0
			5	4	1		
2	B	1	Total	O	S	0	0
			5	4	1		
2	C	1	Total	O	S	0	0
			5	4	1		
2	C	1	Total	O	S	0	0
			5	4	1		
2	D	1	Total	O	S	0	0
			5	4	1		
2	D	1	Total	O	S	0	0
			5	4	1		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	212	Total	O	0	0
			212	212		
3	B	211	Total	O	0	0
			211	211		
3	C	256	Total	O	0	0
			256	256		

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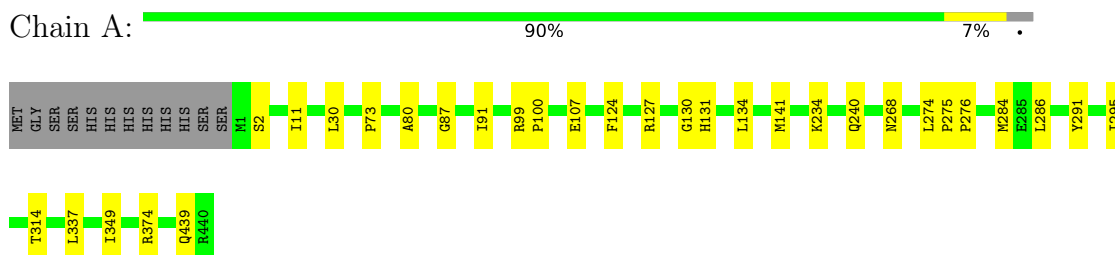
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	D	240	Total	O	0	0
			240	240		

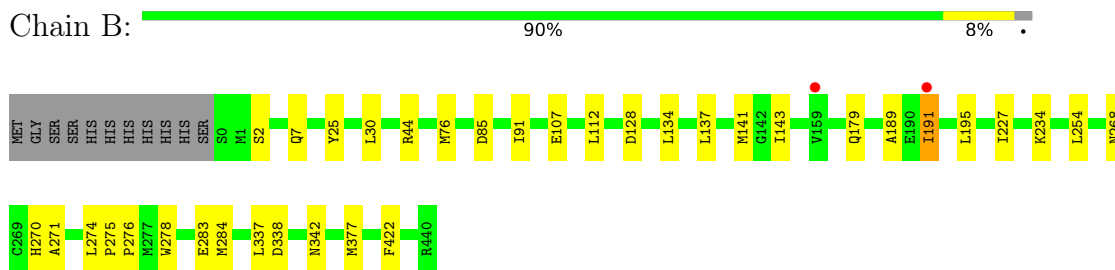
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

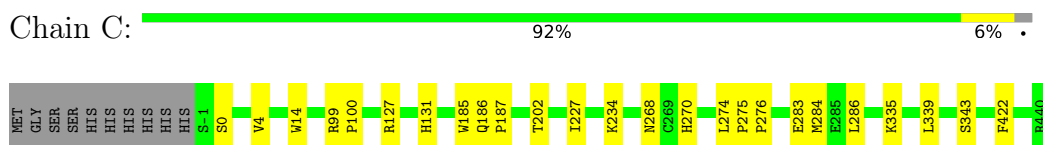
- Molecule 1: Threonine aldolase



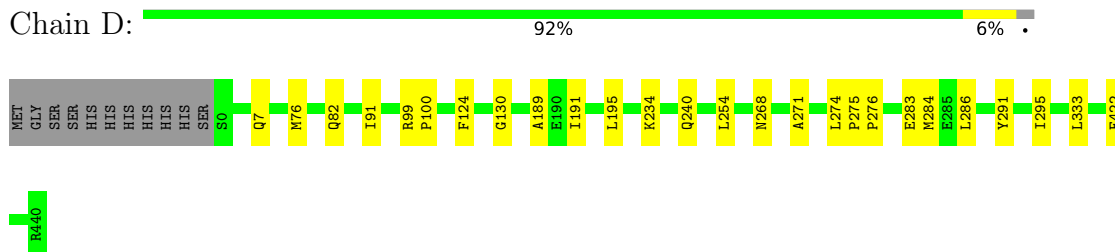
- Molecule 1: Threonine aldolase



- Molecule 1: Threonine aldolase



- Molecule 1: Threonine aldolase



4 Data and refinement statistics

Property	Value	Source
Space group	P 41	Depositor
Cell constants a, b, c, α , β , γ	118.61Å 118.61Å 129.98Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.01 – 1.66 50.01 – 1.66	Depositor EDS
% Data completeness (in resolution range)	99.8 (50.01-1.66) 99.8 (50.01-1.66)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.40 (at 1.66Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.213 , 0.242 0.219 , 0.247	Depositor DCC
R_{free} test set	10401 reflections (4.92%)	wwPDB-VP
Wilson B-factor (Å ²)	23.3	Xtriage
Anisotropy	0.227	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 21.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$	Xtriage
Estimated twinning fraction	0.248 for h,-k,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	14557	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.96% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: SO4, LLP

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.99	0/3473	1.35	0/4728
1	B	1.02	3/3424 (0.1%)	1.38	0/4663
1	C	1.00	0/3507	1.35	0/4773
1	D	1.01	1/3451 (0.0%)	1.36	0/4699
All	All	1.00	4/13855 (0.0%)	1.36	0/18863

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	189	ALA	C-O	5.58	1.30	1.24
1	B	227	ILE	C-O	5.34	1.29	1.24
1	B	191	ILE	C-O	5.33	1.30	1.24
1	D	189	ALA	C-O	5.29	1.30	1.24

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3406	0	3244	23	0
1	B	3362	0	3186	22	0
1	C	3441	0	3281	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	D	3384	0	3217	17	0
2	A	10	0	0	0	0
2	B	15	0	0	0	0
2	C	10	0	0	0	0
2	D	10	0	0	0	0
3	A	212	0	0	2	0
3	B	211	0	0	0	0
3	C	256	0	0	0	0
3	D	240	0	0	0	0
All	All	14557	0	12928	66	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 2.

The worst 5 of 66 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:128:ASP:O	1:B:179[A]:GLN:NE2	2.22	0.68
1:A:286[B]:LEU:HG	3:A:608:HOH:O	1.96	0.66
1:B:141:MET:SD	1:B:143:ILE:HD12	2.40	0.62
1:A:91[A]:ILE:HG22	1:A:91[A]:ILE:O	2.03	0.58
1:C:185:TRP:O	1:C:187[B]:PRO:HD3	2.04	0.57

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	443/452 (98%)	431 (97%)	12 (3%)	0	100	100
1	B	441/452 (98%)	431 (98%)	10 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	449/452 (99%)	437 (97%)	12 (3%)	0	100	100
1	D	442/452 (98%)	434 (98%)	8 (2%)	0	100	100
All	All	1775/1808 (98%)	1733 (98%)	42 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	349/373 (94%)	343 (98%)	6 (2%)	53	32
1	B	341/373 (91%)	337 (99%)	4 (1%)	63	45
1	C	353/373 (95%)	349 (99%)	4 (1%)	65	48
1	D	345/373 (92%)	342 (99%)	3 (1%)	70	56
All	All	1388/1492 (93%)	1371 (99%)	17 (1%)	63	45

5 of 17 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	91	ILE
1	D	286	LEU
1	B	85	ASP
1	B	91	ILE
1	B	268	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 18 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	424	ASN
1	D	436	GLN
1	D	424	ASN
1	B	424	ASN
1	C	305	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

4 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
1	LLP	C	234	1	23,24,25	0.51	0	25,32,34	0.83	1 (4%)
1	LLP	A	234	1	23,24,25	0.49	0	25,32,34	0.80	1 (4%)
1	LLP	D	234	1	23,24,25	0.56	0	25,32,34	0.82	1 (4%)
1	LLP	B	234	1	23,24,25	0.52	0	25,32,34	0.75	1 (4%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	LLP	C	234	1	-	0/16/17/19	0/1/1/1
1	LLP	A	234	1	-	2/16/17/19	0/1/1/1
1	LLP	D	234	1	-	4/16/17/19	0/1/1/1
1	LLP	B	234	1	-	2/16/17/19	0/1/1/1

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	234	LLP	OP4-C5'-C5	3.19	115.34	109.36
1	A	234	LLP	OP4-C5'-C5	2.97	114.92	109.36
1	B	234	LLP	OP4-C5'-C5	2.72	114.46	109.36
1	D	234	LLP	OP4-C5'-C5	2.65	114.33	109.36

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	234	LLP	O-C-CA-CB
1	B	234	LLP	O-C-CA-CB
1	D	234	LLP	O-C-CA-CB
1	D	234	LLP	CG-CD-CE-NZ
1	B	234	LLP	CG-CD-CE-NZ

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

9 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	SO4	C	502	-	4,4,4	0.34	0	6,6,6	0.08	0
2	SO4	D	501	-	4,4,4	0.34	0	6,6,6	0.10	0
2	SO4	B	501	-	4,4,4	0.36	0	6,6,6	0.09	0
2	SO4	A	501	-	4,4,4	0.36	0	6,6,6	0.08	0
2	SO4	C	501	-	4,4,4	0.36	0	6,6,6	0.07	0
2	SO4	D	502	-	4,4,4	0.34	0	6,6,6	0.08	0
2	SO4	B	502	-	4,4,4	0.34	0	6,6,6	0.08	0
2	SO4	B	503	-	4,4,4	0.33	0	6,6,6	0.08	0
2	SO4	A	502	-	4,4,4	0.34	0	6,6,6	0.07	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	439/452 (97%)	-0.99	0 100 100	12, 27, 46, 55	6 (1%)
1	B	440/452 (97%)	-0.83	2 (0%) 87 91	10, 30, 52, 66	3 (0%)
1	C	441/452 (97%)	-0.98	0 100 100	11, 27, 41, 53	10 (2%)
1	D	440/452 (97%)	-0.98	0 100 100	11, 28, 46, 55	4 (0%)
All	All	1760/1808 (97%)	-0.94	2 (0%) 92 94	10, 28, 47, 66	23 (1%)

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	159	VAL	2.9
1	B	191	ILE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q < 0.9’ lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
1	LLP	A	234	24/25	0.99	0.03	17,19,21,21	0
1	LLP	C	234	24/25	0.99	0.03	18,20,22,22	0
1	LLP	D	234	24/25	0.99	0.03	18,20,23,23	0
1	LLP	B	234	24/25	1.00	0.03	18,21,25,26	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	SO4	A	502	5/5	0.96	0.06	70,70,71,72	0
2	SO4	B	503	5/5	0.96	0.10	90,91,92,92	0
2	SO4	B	502	5/5	0.98	0.05	58,58,59,61	0
2	SO4	C	502	5/5	0.98	0.04	65,65,66,68	0
2	SO4	B	501	5/5	0.99	0.03	32,32,34,34	0
2	SO4	C	501	5/5	0.99	0.03	34,35,35,37	0
2	SO4	A	501	5/5	0.99	0.04	38,39,39,40	0
2	SO4	D	501	5/5	0.99	0.04	32,33,34,35	0
2	SO4	D	502	5/5	0.99	0.03	58,59,59,59	0

6.5 Other polymers [i](#)

There are no such residues in this entry.